

Advanced Java Lab

Week-5

Roll Number: 238W1A1269

1. Use RequestDispatcher and sendRedirect() to forward/redirect requests.

Code:

First Servlet.java:

```
package com.mycompany.servlets;

import java.io.IOException;
import javax.servlet.*;
import javax.servlet.http.*;

public class FirstServlet extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse res)
        throws ServletException, IOException {

        req.setAttribute("message", "Forwarded using RequestDispatcher!");
        RequestDispatcher rd = req.getRequestDispatcher("forward");
        rd.forward(req, res);
    }
}
```

ForwardServlet.java:

```
package com.mycompany.servlets;

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.*;
import javax.servlet.http.*;

public class ForwardServlet extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse res)
        throws ServletException, IOException {

        res.setContentType("text/html");
        PrintWriter out = res.getWriter();
    }
}
```

```

        String msg = (String) req.getAttribute("message");

        out.println("<h2>Forward Servlet</h2>");
        out.println("<p>Message: " + msg + "</p>");
    }
}

```

RedirectServlet.java:

```

package com.mycompany.servlets;

import java.io.IOException;
import javax.servlet.*;
import javax.servlet.http.*;

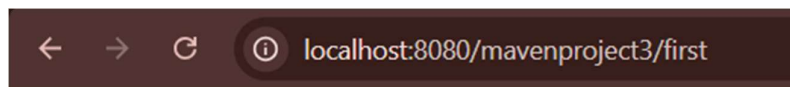
public class RedirectServlet extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        response.sendRedirect("https://www.google.com");
    }
}

```

Output:



Forward Servlet

Message: Forwarded using RequestDispatcher!

2. Pass and display attributes between servlets using setAttribute().

Code:

AttributeSender.java:

```

package com.mycompany.servlets;

import java.io.IOException;
import javax.servlet.*;
import javax.servlet.http.*;

public class AttributeSender extends HttpServlet {

```

```

@Override
protected void doGet(HttpServletRequest req, HttpServletResponse res)
    throws ServletException, IOException {

    req.setAttribute("studentName", "Bharath");
    req.setAttribute("course", "Advanced Java");

    RequestDispatcher rd = req.getRequestDispatcher("showAttributes");
    rd.forward(req, res);
}
}

```

ShowAttributes.java:

```

package com.mycompany.servlets;

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.*;
import javax.servlet.http.*;

public class ShowAttributes extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse res)
        throws ServletException, IOException {

        res.setContentType("text/html");
        PrintWriter out = res.getWriter();

        String name = (String) req.getAttribute("studentName");
        String course = (String) req.getAttribute("course");

        out.println("<h2>Received Attributes</h2>");
        out.println("<p>Name: " + name + "</p>");
        out.println("<p>Course: " + course + "</p>");
    }
}

```

Output:

